

ROUTE NO. TOTAL SHEET SHEET NO. / F.A.P. 389 2424.2 соок 23 16 SHEETS B-I

Contract No. 60E11

SCOPE OF WORK

Remove the existing timber fender system and replace with a self-restoring rubber type. Remove existing timber pile dolphins at the southeast and northwest ends and replace with pipe piles dolphins at the same location.

Repair outside face of the river piers with epoxy crack injection and structural repair of concrete. Repair the eroded section behind the northwest dock wall at the west bridge house.

Remove and replace pier dock ladders. Install one navigation light at each new dolphin.

DESIGN SPECIFICATIONS

2002 AASHTO

<u>DESIGN STRESSES</u>

FIELD UNITS

f'c = 3,500 psi

fy = 60,000 psi (reinforcement)

fy = 35,000 psi ASTM A 252, GR. 2 (Pipe piles) fy = 36,000 psi (AASHTO M 270, GR. 36)

SEISMIC DATA

Seismic Performance Category (SPC) = A Bedrock Acceleration Coefficient (A) = 0.032g Site Coefficient (S) = 1.0

EXISTING CURVE DATA

 $\Delta = 2^{\circ}17'43'' (Rt.)$

D = 1°30′00" T = 76.52'

L = 153.02'

E = 0.77'

R = 3,819.72'P.C. = Sta. 382+36.80

P.T. = Sta. 383+89.82

P.I. = Sta. 383+13.32

An abbreviated Hydraulic Report was made and no further hydraulic study is needed.

All existing channel and pier lamps remain in place.



LOCATION SKETCH

GENERAL PLAN & ELEVATION CONGRESS PARKWAY OVER <u>SOUTH BRANCH CHICAGO RIVER</u> F.A.P. RT. 389 - SEC. 2424.2 B-1 COOK COUNTY

STATION 380+68.75 STRUCTURE NO. 016-2445